Test Chi-square Test

meaning of x^2 Test :-

x^2 Test is used to Test the significant different between observe frequency and expected frequency.

Definition of x^2 Test :-

Chi-Square Test Can be used to determine if Categorical data show dependency on two classifi-cation are independent. It Can also be used to make Comparison between theoretical Population and Actual Data when Categories are used.

Uses of Chi-Square Test :-

* It is useful to test the goodness of fit.
* It is useful to test the significant of association between two ~~artifi~~ attributes.
* It is useful to test the significant (or) homogeneity of Population Variance.

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Formula for Chi-Square Test :-

$$x^2 = \Sigma \left(\frac{O-E}{E} \right)^2$$

O = Observed frequency.
E = Expected frequency.
$E = \frac{\text{row Total} \times \text{Column Total}}{\text{Grand Total}}$.

N = Total number of observation.

Explain the steps to be follow in the Process of Test in the Significant using x^2 Test?

* formulation of null & hypothies (or) Alternative hypothies.
* Determine the level of significant.
* Calculated the exceptal frequency.

$$\frac{\text{Row Total} \times \text{Column Total}}{\text{Grand Total or (N)} \rightarrow \text{number of items.}}$$

* Take the different between observe frequency and expected frequency $(O-E)$ and $(O-E^2)$
* Divided the value of $(O-E)^2$ obtain the following steps.
* if Chi-Square is "0" means the observe and expected frequency Completely Coincide.
* Degree of freedom. $V = (\text{Column} - 1)(\text{Row} - 1)$
* Selection of Table value of x^2 against the number of degree of freedom for the specified level of significant.
* Compare the Calculated value of x^2 test with the Table value.
* Decision regarding the acceptance or Rejector of the null hypothus or Alternative hypothe